

ABSTRACT

A sensor element having a layer configuration, for detecting a physical property of a gas, in particular for detecting the concentration of a gas component in an exhaust gas of an internal combustion engine. The sensor element has a measuring device, used to detect a physical property of the gas, and a heating device. The heating device includes a heater, which is electrically connected to a first heater supply lead and a second heater supply lead. The first heater supply lead is arranged in a plane of stratification between the second heater supply lead and the measuring device. The first heater supply lead is at an at least largely constant electrical potential.